

## **Reference 11**

TEXAS AIR CONTROL BOARD  
LABORATORY  
6330 Highway 290 East  
Austin, Texas 78723

ACL Number: 4344 Status: complete Priority: standard  
Property Sampled: Falcon Refining Co.  
Address: FM 2725 & Bishop Road  
City: Ingleside County: San Patricio Region: 5  
Sampled by: Tom Palmer Date Sampled: 1/13/86  
Adjacent Sources: sample of wastewater from refinery  
Number of samples: 1 Number of reference samples or blanks: 0  
Analysis Requested: ID of odorous compounds

Number of samples received: 1 Date Received: 1/15/86  
Number of reference samples or blanks received: 0  
Condition: OK  
Assigned to: Jim Lindgren Assigned by: David Lucas  
Analysis to be performed: screen for odorous compounds

ATTACHMENT

If transferred between sections, Date Transferred: n/a

By: To:

Date Analysis Completed: 2/21/86

Analysis Performed by: Mark Leidig

Date Reported: 3/3/86

Approved by: J. Maxine Jenks

Description of Samples:

The sample was taken from a wastewater storage tank at Falcon Refining. Falcon recently refined a quantity of crude stock which resulted in a number of odor complaints. The water separated during refining contains the same odorous compound(s) and is also the subject of complaints.

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REGION 5  
AIR POLLUTION CONTROL

Why were the samples taken? What do you hope to learn?:

If possible to identify the odorous constituents, evaluate possible health effects from exposure, and possibly arrive at neutralization or removal method.

How will the analytical results be used? What action is dependent on these results?:

NOV's have been issued for nuisance odor. Depending on content of material, may issue NOV for permit conditions violation. Also want to answer complainant's questions on health effects.

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ATTACHMENT B

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63-011-2172-000

# Laboratory Analysis

## Procedure:

The sample can was opened and a 300-microliter headspace sample was injected into the GC/MS. This procedure was repeated. A 20-mL portion of the water was then shaken in a separatory funnel with 10 mL of methylene chloride to partition the organic components. The methylene chloride layer was removed to a serum vial, and a 0-microliter aliquot was injected into the GC/MS.

## Results:

The headspace samples showed the presence of xylene. The methylene chloride extract showed butanol, cyclohexanediol, and 1 phenylethanol.

Present in the first headspace sample was N, N-diphenylamine. This compound was not found in subsequent injections, possibly due to its escape into the atmosphere upon first opening the sealed container.

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